STAFFORD COUNTY SCHOOL BOARD

Agenda Consideration

TOPIC: Adoption of Textbooks for Trade and

Industrial Education 9-12

ITEM NO: 8F

PREPARED BY: Andrea Bengier, Ed.D.

Assistant Superintendent for Instruction and Technology

Brenda D. Long, Ed.D. Director of Career and Technical Education

MEETING: April 27, 2006 ACTION DATE: April 27, 2006 INFORMATION ONLY: N/A

ACTION REQUESTED BY THE SUPERINTENDENT: That the School Board approve the adoption and purchase of trade and industrial education textbooks for grades 9-12 at an estimated cost of \$39,850.45.

KEY POINTS:

- The textbook committee evaluated the textbooks and supporting material.
- The textbooks correlate with the state required course competencies.
- The textbooks reinforce the Standards of Learning as embedded in the course competencies.
- The textbooks reinforce skills required to address industry certification exams.
- The textbooks met the evaluation criteria and were determined appropriate for grade levels 9-12.
- The textbooks will be purchased as a classroom set.

SCHOOL BOARD GOAL:

Goal 1: Provide educational excellence through instruction that establishes high expectations for *all* students yet recognizes the unique needs of each learner.

FUNDING SOURCE: Textbook Fund

AUTHORIZATION REFERENCE: School Board Policy 6-46

DATE: March 22, 2006 COURSE # 8676, 8677, 8678

COURSE TITLE: Automotive Body Technology GRADE/LEVEL: 10-12 (NSHS)

BOOK TITLE: Auto Body Repair Technology EDITION: 4th

AUTHOR(S): Duffy PRICE: \$90.25

PUBLISHER: Thomson-Delmar Learning PHONE: 800-347-7707

ISBN# <u>0-7668-6272-0</u> COPYRIGHT: <u>2004</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Instructor's Manual ISBN 0766862739 Free (1 per teacher)

Student Technology Manual (non-consumable) ISBN 0766862747 \$31.75 each (class set of 25) EResource ISBN 1401849970 \$280.50 each (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

This text explains all aspects of collision repair in clear detail. Newly updated material allows students to gain modern professional skills as well as technical know-how to handle initial evaluation through final paint detailing. Text provides support for Automotive Service Excellence certification and entrepreneurship.

RECOMMENDED DISTRIBUTION: North Stafford High School only

One per student Class set of 25 per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 21, 2006 COURSE # 8506, 8507, 8508

COURSE TITLE: Automotive Technology GRADE/LEVEL: 10-12

BOOK TITLE: Automotive Excellence EDITION:

AUTHOR(S): PRICE: $\frac{\$36.50}{\$}$

PUBLISHER: Glencoe PHONE: 703-912-5299

ISBN# <u>1-59070-186-0</u> COPYRIGHT: <u>2007</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE:

Academic Applications ISBN 0-07-874416-4 \$18.00 (1 per teacher) Technical Applications ISBN 0-07-874414-8 \$18.00 (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

Automotive Excellence details the construction, operation, diagnosis, service, and repair of late-model automobiles and light trucks. This comprehensive text uses a building-block approach that starts with the fundamental principles of system operation and progresses gradually to complex diagnostic and service procedures. The text provides thorough coverage of the latest developments in the automotive field, including OBD II diagnostics, enhanced emissions testing, misfire monitoring, air bag systems, anti-lock brakes, and security systems. Organized around the four ASE automobile test areas taught in Stafford, this text is a valuable resource for students preparing for a career in automotive technology, as well as experienced technicians preparing for ASE Certification/Recertification Tests.

RECOMMENDED DISTRIBUTION: See list below

One per student Class set of 25 per teacher or Other

(Number) (Teacher/Grade Level, etc)

PRICE:

Brooke Point High School – 25 North Stafford High School – 25 Stafford High School – 50

Textbook Consumable: Yes No

DATE: March 20, 2006 COURSE # 8600, 8601, 8602, 8603

Carpentry GRADE/LEVEL: 9-12 (NSHS) COURSE TITLE:

BOOK TITLE: EDITION: 4th Modern Cabinetmaking

William D. Umstattd PRICE: AUTHOR(S): Charles W. Davis

PUBLISHER: Goodheart-Willcox PHONE:

COPYRIGHT: 2006

BINDING: Hardback Paperback Other Spiral

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Workbooks (non-consumable) ISBN 1-59070-377-4 \$13.50 each (class set of 25) Instructor's Manual ISBN 1-59070-378-2 \$15.00 each (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

ISBN#

This text covers Virginia State competencies as approved and supports Standards of Learning for all students. The text is well written and has clearly defined objectives for each section. The text currently being used is thorough. The newest edition did not alter the content of the text to the extent that it would alter student usage. The text covers tools, materials, machinery, and processes used in cabinetmaking.

We are requesting only the Teacher Manual and non-consumable workbooks for this class.

RECOMMENDED DISTRIBUTION: North Stafford High School only

One per student Class set of 25 or Other per

> (Number) (Teacher/Grade Level, etc)

800-365-3907

Textbook Consumable: Yes No

DATE: March 20, 2006 COURSE # 8601, 8602, 8603

COURSE TITLE: Carpentry GRADE/LEVEL: 9-12 (SHS/NSHS)

BOOK TITLE: Residential Construction Academy EDITION: First

AUTHOR(S): Floyd Vogt PRICE: \$43.25

PUBLISHER: Thomson Delmar Learning PHONE: 800-347-7707

ISBN# <u>1401813437</u> COPYRIGHT: <u>2003</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Instructor's Resource Guide ISBN 1401813445 \$17.75 each (1 per teacher)
Carpentry I Video Series CD-ROM ISBN 1401835545 \$485.00 each (1 per teacher)
E-Resource ISBN 1401813453 \$118.25 each (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

This text covers Virginia State competencies as approved and supports Standards of Learning for all students. The text is well written and has clearly defined objectives for each section. This handbook is based on nationally-recognized standards set by the construction industry. Each chapter contains special "Procedure" sections that combine step-by-step instruction with helpful drawings. Safety is emphasized and safety cautions are highlighted throughout the book.

RECOMMENDED DISTRIBUTION: North Stafford and Stafford High Schools only
One per student

Class set of 25 each school
(Number)

(Teacher/Grade Level, etc.)

Textbook Consumable: Yes No

DATE: March 20, 2006 COURSE # 8602, 8603

COURSE TITLE: Carpentry GRADE/LEVEL: 9-12 (SHS)

BOOK TITLE: Modern Woodworking EDITION: 11th

AUTHOR(S): Willis H. Wagner, Clois E. Kinklighter PRICE: \$39.96

PUBLISHER: Goodheart-Willcox PHONE: 800-365-3907

ISBN# <u>1-59070-481-9</u> COPYRIGHT: <u>2006</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Workbooks (non-consumable) ISBN 1-59070-482-7 \$12.75 each (class set of 25)

Instructor's Guide ISBN 1-59070-483-5 Free (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

This text covers Virginia State competencies as approved and supports Standards of Learning for all students. The text is well written and has clearly defined objectives for each section.

RECOMMENDED DISTRIBUTION: Stafford High School only

One per student Class set of <u>25</u> per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 20, 2006 COURSE # 8515, 8601, 8602

COURSE TITLE: Building Trades, Carpentry GRADE/LEVEL: 9-12 (SHS)

BOOK TITLE: Carpentry EDITION: Fourth

AUTHOR(S): Floyd Vogt PRICE: \$67.50

PUBLISHER: Thomson Delmar Learning PHONE: 800-347-7707

ISBN# <u>1401870694</u> COPYRIGHT: <u>2006</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Workbooks (non-consumable) ISBN 1401870708 \$18.75 each (Class set of 25)

Instructor's manual ISBN 1401870740 Free (1 per teacher) E-Resource ISBN 1401870716 \$150.00 (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

This text covers Virginia State competencies as approved and supports Standards of Learning for all students. The text is well written and has clearly defined objectives for each section. **Carpentry, 4th Edition**, follows a logical path of a residential project, using reader-friendly and diagrams to explore building plans, site work and layout, footings and foundations, framing, interior and exterior surfaces, cabinetry, flooring, and more.

RECOMMENDED DISTRIBUTION: Stafford High School only

One per student Class set of 25 per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 22, 2006 COURSE # 8530, 8531

COURSE TITLE: Architectural Drafting GRADE/LEVEL: 11-12 (SHS/NSHS)

BOOK TITLE: Architectural Drafting and Design EDITION: 5th

AUTHOR(S): Jeffries, Madsen PRICE: \$93.50

PUBLISHER: Thomson-Delmar Learning PHONE: 800-347-7707

ISBN# <u>1401867154</u> COPYRIGHT: <u>2005</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Back of Book CD ISBN 1401871844 (included with text)

Student Workbooks CD Version ISBN 1401871879 \$24.25 each (class set of 25) Teacher's Solutions Manual ISBN 140187228X \$41.75 (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

The text includes national CAD standards, incorporating excellent problems and descriptions for student use. This fifth edition features the basics of residential design through the various types of projects that a designer or architect would likely complete during the design process. Excellent tables and glossary are included.

SHS & NSHS only

RECOMMENDED DISTRIBUTION: North Stafford and Stafford High Schools only

One per student Class set of 25 each school per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 22, 2006 COURSE # 8530, 8531

COURSE TITLE: Technical Drafting/Advanced GRADE/LEVEL: 10-12 NSHS/SHS

Technical Drafting

BOOK TITLE: <u>Technical Drawing</u> EDITION: <u>5</u>

AUTHOR(S): Goetsch, Chaulk, Nelson PRICE: \$100.25

PUBLISHER: Thomson-Delmar Learning PHONE: 800-347-7707

ISBN# <u>1401857604</u> COPYRIGHT: <u>2005</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Eresource ISBN 1401857647 \$167.00 each (1 per teacher)
Instructor's Resource Kit ISBN 1401857639 \$25.00 each (1 per teacher)
Student Workbooks (non-consumable) ISBN 1401857612 \$37.50 each (class sets of 25)

NARRATIVE SUMMARY/RATIONALE:

This text presents the students with excellent problems and diagrams, spanning from basic to advanced aspects of engineering and industrial technology. Readers are provided exposure to design and visualization for computer modeling, as well as the more traditional methods of technical drawing, in clearly written step by step directions. There is an excellent glossary and reference appendices.

RECOMMENDED DISTRIBUTION: North Stafford and Stafford High Schools only

One per student Class set of 25 each school per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No.

DATE: March 21, 2006 COURSE # 8534,8535

COURSE TITLE: Electricity II & III GRADE/LEVEL: 11-12 SHS

BOOK TITLE: Electrical Wiring Residential, Based on the EDITION: 15

2005 National Electric Code

AUTHOR(S): Ray Mullin PRICE: \$68.25

PUBLISHER: Thomson Delmar Learning PHONE: 800-347-7707

ISBN# <u>1-4018-5020-0</u> COPYRIGHT: <u>2005</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Instructor Manual ISBN 1401850219 Free (1 per teacher)

Lab Manual (non-consumable) ISBN 1-4018-5022-7 \$17.50 each (class set of 25) E-Resource ISBN 1401850243 \$225.50 each (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

This resource is completely updated to include the National Electrical Code and provides aspiring electricians the necessary foundation for learning all aspects of house wiring in order to meet code requirements. Full color wiring diagrams and updated illustrations ensure student understanding of critical concepts.

RECOMMENDED DISTRIBUTION: Stafford High School only

One per student Class set of <u>25</u> per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 21, 2006 COURSE # 8533, 8515

COURSE TITLE: Electricity & Building Trades GRADE/LEVEL: 9-12 SHS

BOOK TITLE: House Wiring Simplified EDITION:

AUTHOR(S): Floyd Mix PRICE: \$19.98

PUBLISHER: Goodheart-Willcox PHONE: 800-365-3907

ISBN# <u>1-59070-437-1</u> COPYRIGHT: <u>2005</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

No additional materials are available for this title

NARRATIVE SUMMARY/RATIONALE:

This is an excellent introduction textbook for first year Electricity and Building Trades students. The text addresses safety throughout the wiring process. The book is visually appealing and interesting for students to read.

RECOMMENDED DISTRIBUTION: Stafford High School only

One per student Class set of 25 per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 21, 2006 COURSE # 8534,8535

COURSE TITLE: Electricity II & III GRADE/LEVEL: 11-12 SHS

BOOK TITLE: Modern Commercial Wiring EDITION: 1

AUTHOR(S): Harvey Holzman PRICE: \$36.00

PUBLISHER: Goodheart-Willcox PHONE: 800-365-3907

ISBN# <u>1-59070-438-X</u> COPYRIGHT: <u>2005</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Workbook (non-consumable) ISBN 1-59070-439-8 \$9.75 each (class set of 25)

Instructor's Guide ISBN 1-59070-442-8 Free (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

This is an excellent text to carry advanced students into commercial wiring concepts. The text, based on National Electrical Code, provides students with a comprehensive too for the more complex wiring requirements of commercial installations.

RECOMMENDED DISTRIBUTION: Stafford High School only

One per student Class set of 25 per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 21, 2006 COURSE # 8533, 8515

COURSE TITLE: Electricity & Building Trades GRADE/LEVEL: 9-12 SHS

BOOK TITLE: Residential Construction Academy House Wiring EDITION:

AUTHOR(S): Gregory Fletcher PRICE: \$43.25

PUBLISHER: Thomson Delmar Learning PHONE: 800-347-7707

ISBN# <u>1-4018-1371-2</u> COPYRIGHT: <u>2004</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Instructor's Resource Guide/Kit ISBN 1401813720 \$17.25 each (1 per teacher)
Computerized Test Bank ISBN 1401813739 \$118.25 each (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

This is an excellent introduction textbook for first year Electricity and Building Trades students. This outstanding resource covers all areas of residential wiring that are required of an entry-level electrician. The principles and practices used in the installation of residential wiring systems are embraced from start to finish in a way that clearly explains what needs to be done and how to do it.

RECOMMENDED DISTRIBUTION: Stafford High School only

One per student Class set of 25 per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 20, 2006 COURSE # 8660, 8661, 8662

COURSE TITLE: Graphic Imaging GRADE/LEVEL: 9-12 NSHS

BOOK TITLE: Exploring Illustrator CS2 EDITION:

AUTHOR(S): Annessa Hartman PRICE: \$27.75

PUBLISHER: Thomson Delmar Learning PHONE: 800-477-3692

ISBN# <u>1-4180-0053-1</u> COPYRIGHT: <u>2006</u>

BINDING: Hardback Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

EResource CD ISBN 1-4180-0054-X \$88.25 each (1 per teacher) Workbooks – Project Illustrator 10 ISBN 1-4018-1114-0 23.25 each (class set of 25)

Instructor's Manual on CD ISBN 1-4018-1115-9 Free (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

Exploring Illustrator CS2 demonstrates how to create vector graphics and drawings for both print and web applications. The text supports use of tools in Illustrator and application to student designs. This text will prepare students to transfer files to production.

RECOMMENDED DISTRIBUTION: North Stafford High School only

One per student Class set of $\underline{25}$ per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 20, 2006 COURSE # 8660, 8661, 8662

COURSE TITLE: Graphic Imaging GRADE/LEVEL: 9-12 NSHS

BOOK TITLE: Exploring Indesign CS2 EDITION:

AUTHOR(S): Terry Rydberg PRICE: \$27.75

PUBLISHER: Thomson Delmar Learning PHONE: 800-477-3692

ISBN# <u>1-4180-1432-X</u> COPYRIGHT: <u>2006</u>

BINDING: Hardback Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

1 - Exploring Indesign EResource ISBN 1-4180-1433-8 \$84.00 each (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

Exploring Indesign CS2 focuses on the design project, typographic principles needed to use the software to build correct, editable, and printable documents. This book teaches the step by step process to use the software program and the tools in the program, with an emphasis on typography and critical thinking. Users learn to begin a project while visualizing the end design, to identify project pitfalls and challenges. Chapters are sequential, moving the student from basic operations to creating complex documents. As in the industry, the emphasis throughout is on productivity, including preplanning and utilizing keyboard shortcuts.

RECOMMENDED DISTRIBUTION: North Stafford High School only

One per student Class set of $\underline{25}$ per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 20, 2006 COURSE # 8660, 8661, 8662

COURSE TITLE: Graphic Imaging GRADE/LEVEL: 9-12 NSHS

BOOK TITLE: Exploring Photoshop CS2 EDITION:

AUTHOR(S): Annessa Hartman PRICE: \$27.75

PUBLISHER: Thomson Delmar Learning PHONE: 800-477-3692

ISBN# <u>1-4180-1154-1</u> COPYRIGHT: <u>2006</u>

BINDING: Hardback Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE:

1 - EResource CD ISBN 1-4180-1155-X \$84.00 each (1 per teacher)

1- Project Photoshop 7 ISBN 1-4018-2591-5 Free (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

Exploring Photoshop CS2 focuses on the design project, typographic principles, color concepts, and working with color digital images. This text presents a step-by-step process to use the software program and the tools in the program.

RECOMMENDED DISTRIBUTION: North Stafford High School only

One per student Class set of 25 per or Other

(Number) (Teacher/Grade Level, etc)

PRICE:

Textbook Consumable: Yes No

DATE: March 20, 2006 COURSE # 8660, 8661, 8662

COURSE TITLE: Graphic Imaging I, II, III GRADE/LEVEL: 9-12 NSHS

BOOK TITLE: Graphic Communications The Printed Image EDITION:

AUTHOR(S): Z A Prust PRICE: \$43.50

PUBLISHER: The Goodheart-Willcox Publisher PHONE: 800-365-3907

ISBN# <u>1-56637-984-9</u> COPYRIGHT: <u>2003</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Instructor's Manual 1-56637-986-5 Free (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

Graphic Imaging The Printed Image is a comprehensive text that addresses all areas of today's printing field. The text explains and demonstrates various methods that are used to take an original idea and convert it into a printed product. While covering traditional printing concepts, the text covers extensive content focusing on technological advancements and other aspects of this rapidly changing field.

RECOMMENDED DISTRIBUTION: North Stafford High School only

One per student Class set of 25 per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No

DATE: March 22, 2006 COURSE # 8512, 8513, 8515

COURSE TITLE: Masonry & Building Trades GRADE/LEVEL: 9-12 SHS

BOOK TITLE: Masonry Skills 5th Edition EDITION: 5

AUTHOR(S): Kreh PRICE: \$68.25

PUBLISHER: Thomson-Delmar Learning PHONE: 800-347-7707

ISBN# <u>0766859363</u> COPYRIGHT: <u>2003</u>

BINDING: <u>Hardback</u> Paperback Spiral Other

ADDITIONAL MATERIALS AVAILABLE: PRICE:

Instructor's Manual ISBN 0766859371 Free (1 per teacher)

NARRATIVE SUMMARY/RATIONALE:

This text has been approved by The Brick Industry of America. The text provides reader-friendly, comprehensive guide to basic information and advanced skills. All technical and safety information has been updated to reflect current industry practices and federally mandated guidelines.

RECOMMENDED DISTRIBUTION: Stafford High School only

One per student Class set of <u>25</u> per or Other

(Number) (Teacher/Grade Level, etc)

Textbook Consumable: Yes No